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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,246	03/01/2004	Sung Hsiung Wang	67,200-1212	3277	
75	590 03/11/2005		EXAM	EXAMINER	
TUNG & ASSOCIATES			NGUYEN, CUONG QUANG		
838 W. Long Lake Road, Suite 120 Bloomfield Hills, MI 48302			ART UNIT	PAPER NUMBER	
	•		2811		
			DATE MAILED: 03/11/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	Application No. Applicant(s)					
Office Action Summary		10/791,2	46	WANG, SUNG H	WANG, SUNG HSIUNG			
		Examine	r	Art Unit				
		Cuong Q.		2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🗌	Responsive to communication(s) filed	on		•				
2a) <u></u> □	This action is FINAL . 2b)	⊠ This action is r	non-final.	•				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 13-20 is/are withdrawn from consideration. Claim(s) 7-12 is/are allowed. Claim(s) 1,2 and 6 is/are rejected. Claim(s) 3-5 is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9) ☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Infor	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO- Imation Disclosure Statement(s) (PTO-1449 or PTO-1449) Der No(s)/Mail Date 03-01-04		Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (P ⁻ 	TO-152)			

DETAILED ACTION

Election/Restriction

1. Applicant's election with traverse of Group I, claims 1-12 is acknowledged. The traversal is on the ground(s) that the claimed structure is not possible in arriving by the alternative method proposed by the examiner in the restriction. However, Applicant has not provided a convincing evidence that the materially different processes would not be suitable in producing the claimed structure. The arguments of counsel cannot take the place of evidence in the record. In re Schulze, 346 F.2d 600, 602, 145 USPQ 716, 718 (CCPA 1965); In re Geisler, 116 F.3d 1465, 43 USPQ2d 1362 (Fed. Cir. 1997) ("An assertion of what seems to follow from common experience is just attorney argument and not the kind of actual evidence that is required to rebut a prima facie case of obviousness."). See MPEP 716.01(c) for examples of attorney statements which are not evidence and which must be supported by an appropriate affiavit or declaration.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/791,246

Art Unit: 2811

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Page 3

Claims 1, 2 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Xing (US 6,492,222).

Xing discloses a microelectronic product comprising: a substrate having exposed therein a first and second contact regions (108); a first dielectric layer (112) formed over the substrate and a second dielectric layer (134) formed over the first dielectric layer; a capacitor formed interposed between the first dielectric layer and the second dielectric layer, the capacitor also being sandwiched between a first conductor stud (114) that penetrates the first dielectric layer and contacts the first contact region and a second conductor stud (136) that penetrates the second dielectric layer; and a contiguous conductor interconnect and conductor stud layer contacting the second contact region and formed into a trench defined within the second dielectric layer and a contiguous via defined within the first dielectric layer; an etch stop layer (20, a silicon nitride layer) interposed between the first dielectric layer and the second dielectric layer; and a spacer layer (118) passivating a sidewall of the capacitor. Fig.1.

Allowable Subject Matter

3. Claims 7-12 are allowed. Application/Control Number: 10/791,246 Page 4

Art Unit: 2811

4. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: Xing appears to be the closest prior art reference. However, this reference fails to teach stop layer simultaneously serves as a floor of the trench and passivates a sidewall of the capacitor. Prior art of record fails to teach or suggest to incorporate these limitations into Xing to arrive at the claimed device.

Conclusion

- Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 872-9306. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.
- 6. Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to CUONG Q NGUYEN whose telephone number is (571) 272-1661. The Examiner is in the Office generally between the hours of 6:30 AM to 5:00 PM (Eastern Standard Time) Monday through Thursday.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Eddie Lee who can be reached on (571) 272-1732.

Art Unit: 2811

8. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center Receptionists whose telephone number is 308-0956.

Cuong Nguyen

Primary examiner

3/1/05